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DULLARD Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12805c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	O95476
Other Accession	Q3B7T6, Q3TP92, Q1RMV9, NP_001137247.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32296
Calculated MW	28377
Antigen Region	131-160

Additional Information

Gene ID	23399
Other Names	CTD nuclear envelope phosphatase 1, Serine/threonine-protein phosphatase dullard, CTDNEP1, DULLARD
Target/Specificity	This DULLARD antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 131-160 amino acids from the Central region of human DULLARD.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	DULLARD Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CTDNEP1
Synonyms	DULLARD

Function	Serine/threonine protein phosphatase forming with CNEP1R1 an active phosphatase complex that dephosphorylates and may activate LPIN1 and LPIN2. LPIN1 and LPIN2 are phosphatidate phosphatases that catalyze the conversion of phosphatidic acid to diacylglycerol and control the metabolism of fatty acids at different levels. May indirectly modulate the lipid composition of nuclear and/or endoplasmic reticulum membranes and be required for proper nuclear membrane morphology and/or dynamics. May also indirectly regulate the production of lipid droplets and triacylglycerol. May antagonize BMP signaling.
Cellular Location	Endoplasmic reticulum membrane; Single-pass membrane protein. Nucleus membrane; Single-pass membrane protein
Tissue Location	Muscle specific with lower expression in other metabolic tissues.

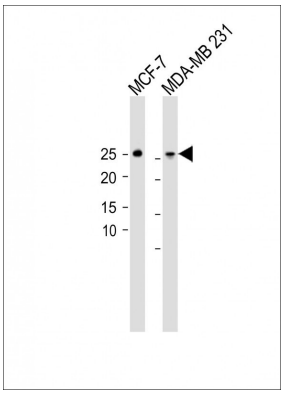
Background

Serine/threonine phosphatase which may be required for proper nuclear membrane morphology. Involved in LPIN1 dephosphorylation. May antagonize BMP signaling.

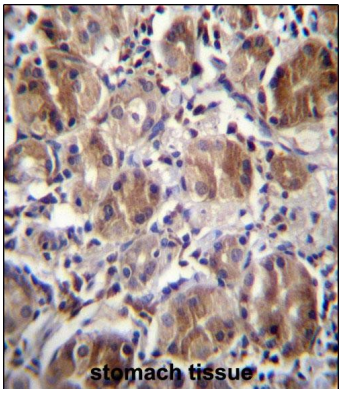
References

Kim, Y., et al. Proc. Natl. Acad. Sci. U.S.A. 104(16):6596-6601(2007)
Zhang, Y., et al. Mol. Cell 24(5):759-770(2006)
Satow, R., et al. Dev. Cell 11(6):763-774(2006)
Satow, R., et al. Biochem. Biophys. Res. Commun. 295(1):85-91(2002)

Images

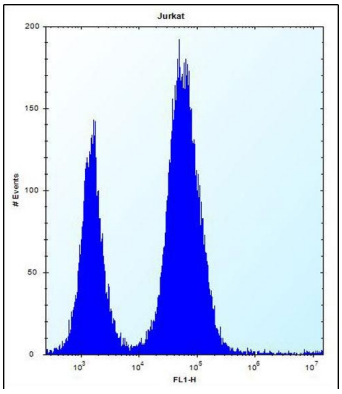


All lanes: Anti-DULLARD Antibody (Center) at1:1000 dilution Lane 1: MCF-7 whole cell lysate Lane 2: MDA-MB 231 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 28 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



DULLARD Antibdy (Center) (Cat. #AP12805c)immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of DULLARD Antibdy (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

DULLARD Antibody (Center) (Cat. #AP12805c) flow cytometric analysis of Jurkat cells (right histogram)



compared to a negative control cell (left histogram).FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.